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DOCKET NO.: MSFT-2118/304101.01

PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE APR 18 2003

Technology Center 2100

In Re Application of:

Eric P. Traut and Benjamin Martz

Application No.: 09/617,669

Filed: July 17, 2000

For: System And Method For Displaying Currnet Images Of Virtual Machine Environments

Confirmation No.: 8184

Group Art Unit: 2174

Examiner: Truc T. Chuong

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

### ASSOCIATE POWER OF ATTORNEY

The undersigned, of the firm WOODCOCK WASHBURN LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, Attorney(s) and/or Agents for Applicant(s), hereby appoints the following:

Richard E. Kurtz	Registration No. 19,263	Jonathan M. Waldman	Registration No. 40,861
Dale M. Heist	Registration No. 28,425	Chad Ziegler	Registration No. 44,273
John W. Caldwell	Registration No. 28,937	David N. Farsiou	Registration No. 44,104
Gary H. Levin	Registration No. 28,734	Steven H. Meyer	Registration No. 37,189
Dianne B. Elderkin	Registration No. 28,598	Paul B. Milcetic	Registration No. 46,261
John P. Donohue, Jr.	Registration No. 29,916	Joseph R. Condo	Registration No. 42,431
Henrik D. Parker	Registration No. 31,863	Michael K. Jones	Registration No. 41,100
Suzanne E. Miller	Registration No. 32,279	Frank T. Carroll	Registration No. 42,392
Lynn B. Morreale	Registration No. 32,842	Thomas E. Watson	Registration No. 43,243
Joseph Lucci	Registration No. 33,307	Peter M. Ullman	Registration No. 43,963
Michael P. Dunnam	Registration No. 32,611	Richard B. LeBlanc	Registration No. 39,495
Michael D. Stein	Registration No. 34,734	Joseph D. Rossi	Registration No. 47,038
Albert J. Marcellino	Registration No. 34,664	George J. Awad	Registration No. 46,528
David R. Bailey	Registration No. 35,057	Steven D. Maslowski	Registration No. 46,905
Barbara L. Mullin	Registration No. 38,250	S. Maurice Valla	Registration No. 43,966
Kevin M. Flannery	Registration No. 35,871	Emma R. Dailey	Registration No. 48,491
David A. Cherry	Registration No. 35,099	Vincent J. Roccia	Registration No. 43,887
Lynn A. Malinoski	Registration No. 38,788	Stephen C. Timmins	Registration No. 48,481
Steven B. Samuels	Registration No. 37,711	Richard D. Watkins	Registration No. 50,993
Janet E. Reed	Registration No. 36,252	Erich M. Falke	Registration No. 49,049
Jeffrey J. King	Registration No. 38,515	Jane E. Inglese	Registration No. 48,444
Alfred W. Zaher	Registration No. 42,248	Susan C. Murphy	Registration No. 46,221
Robert B. Washburn	Registration No. 16,574	Raymond N. Scott, Jr.	Registration No. 48,666
Norman L. Norris	Registration No. 24,196	David L. Marcus	Registration No. 46,897
Michael J. Swope	Registration No. 38,041	Lawrence A. Aaronson	Registration No. 38,369
Michael J. Bonella	Registration No. 41,628	John A. Harrelson, Jr.	Registration No. 42,637
Harold H. Fullmer	Registration No. 42,560	Joseph Milowic, III	Registration No. 52,034
John E. McGlynn	Registration No. 42,863	Kenneth R. Eiferman	Registration No. 51,647

Karen M. Whitney  
Amy Carr-Trexler  
Daniel D. Biesterveld  
Sharon Fenick  
Phillip A. Singer  
Wendy A. Choi  
Felicity E. Groth  
Jeffrey H. Rosedale  
Andrew T. Serafini

Registration No. P52,355<sup>1</sup>  
Registration No. 51,531  
Registration No. 45,898  
Registration No. 45,269  
Registration No. 40,176  
Registration No. 36,697  
Registration No. 47,042  
Registration No. 46,018  
Registration No. 41,303

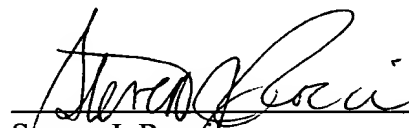
Bruce D. George  
Tara L. Rachinsky  
Jerome G. Schaefer  
Joseph F. Oriti  
Richard W. Knight  
Brian J. Hubbard  
Scott E. Scioli  
Andrew J. Hagerty  
Walter C. Frank

Registration No. 43,631  
Registration No. 47,875  
Registration No. 50,800  
Registration No. 47,835  
Registration No. 42,751  
Registration No. 45,873  
Registration No. 47,930  
Registration No. 44,141  
Registration No. 52,911

his/her associates with full power to prosecute the above-identified application and to transact all business in the Patent Office connected therewith and requests that correspondence continue to be directed to the firm of WOODCOCK WASHBURN LLP at the above address.

Date:

4/7/03

  
Steven J. Rocci  
Registration No. 30,489

Woodcock Washburn LLP  
One Liberty Place - 46th Floor  
Philadelphia PA 19103  
Telephone: (215) 568-3100  
Facsimile: (215) 568-3439

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**Examiner: Truc T. Chuong**

**For: System and Method For Displaying Current Images of Virtual Machine Environments**

VIA HAND-DELIVERY

Box DSD  
Commissioner for Patents and Trademarks  
Washington, DC 20231

**POWER OF ATTORNEY WITH REVOCATION**

Revoking any and all powers of attorney heretofore given in the matter of the above-entitled application, the undersigned, assignee of the entire interest in the above-identified application, hereby appoints **Steven J. Rocci**, Registration No. **30,489**, of Philadelphia, Pennsylvania, as attorney, with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith.

**Send all future correspondence and address all telephone calls to:**

Steven J. Rocci  
WOODCOCK WASHBURN LLP  
One Liberty Place - 46th Floor  
Philadelphia, PA 19103  
Telephone: (215)568-3100

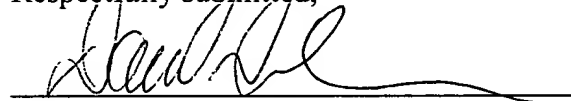
In addition, the assignee also appoints the following attorneys listed below of **MICROSOFT CORPORATION, One Microsoft Way, Redmond, Washington 98052** with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith.

**Daniel D. Crouse**

**Registration No. 32,022**

- ☒ A Statement under 37 CFR § 3.73(b) and copies of relevant documents accompany this Revocation of Power of Attorney.

Respectfully submitted,



(Signature)

Date: 4/3/03

Name: Daniel D. Crouse  
Title: Assistant Secretary  
Microsoft Corporation

## ASSIGNMENT OF PATENT AND PATENT RIGHTS

WHEREAS, CONNECTIX CORPORATION, a California corporation, ("Assignor") owns all right, title and interest in and to the patents and patent applications ("Intellectual Property") identified in Schedule A attached hereto; and

WHEREAS, MICROSOFT CORPORATION, a Washington corporation, ("Assignee"), is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the Intellectual Property.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor assigns and transfers to Assignee and Assignee's legal representatives, successors and assigns, pursuant to the terms of an executed Asset Purchase Agreement by and among Assignor, Assignee, and Roy K. McDonald, Jonathan F. Garber, and Bonnie E. Fought ("Founders"), its full and exclusive rights in and to the Intellectual Property in the U.S. and every foreign country and its entire right, title, and interest in and to the Intellectual Property and related applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the Intellectual Property, and extensions or derivations thereof, both foreign and domestic, that may issue thereon, and Assignor does hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this Assignment document. Moreover, Assignor also assigns and transfers all claims for past infringements of each of the patents and patent applications enumerated in Schedule A.

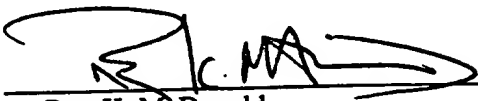
ASSIGNOR HEREBY AUTHORIZES the Assignee to insert in Schedule A to this assignment document the filing date and application number of any application if the date and number are unavailable at the time this document is executed.

UPON SAID CONSIDERATION, Assignor conveys to the Assignee the right to make application in its own behalf for protection of the Intellectual Property in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of any earlier U.S. application (or any other application on the invention) to gain priority with respect to other applications.

IN WITNESS WHEREOF, Assignor has caused one of its officers to hereunder set his hand on the date shown below.


CONNECTIX CORPORATION

Date: February 18, 2003

By:   
Roy K. McDonald  
Chief Executive Officer

STATE OF CALIFORNIA )  
                                  ) SS:  
COUNTY OF SAN MATEO )

On this 18th day of February, 2003, before me, a Notary Public in and for said county, appeared Roy K. McDonald, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

  
Notary Public

My Commission Expires: May 13, 2003

{SEAL}



**Schedule A**

<b>U.S. Filed</b>			
<b>Title</b>	<b>Date Filed</b>	<b>PTO Number</b>	<b>Remarks</b>
Lossless Data Compression System and Method	April 1, 1997	5,617,552	
Virtual Memory Management System and Method Using Data Compression	December 16, 1997	5,699,539	
Dynamic Cross-Compilation System and Method	June 16, 1998	5,768,593	
Method for Creating Virtual Memory System by Redirecting Access for User Stack Instead of Supervisor Stack During Normal Supervisor Mode Processing	November 5, 19	5,063,499	

# Pending Patent Applications

09/617,709	U.S.	July 17, 2000	System and Method for Emulating the Operation of a Translation Look-Aside Buffer	Eric P. Traut	068167.0102
09/617,669	U.S.	July 17, 2000	System and Method for Displaying Current Images of Virtual Machine Environments	Eric P. Traut Benjamin Martz	068167.0103
09/617,624	U.S.	July 17, 2000	System and Method for Emulating the Operation of a Video Graphics Adapter	Tim Carroll Aaron S. Giles	068167.0104
09/747,492	U.S.	December 21, 2000	System and Method for the Logical Substitution of Processor Control in an Emulated Computing Environment	Eric P. Traut	068167.0105
09/809,731	U.S.	March 15, 2001	Method for Hybrid Processing of Software Instructions of an Emulated Computer System	Aaron S. Giles Eric P. Traut	068167.0107
09/918,295 <sup>1</sup>	U.S.	July 30, 2001	Method for Establishing a Drive Image in a Computing Environment	Eric P. Traut Aaron S. Giles Parag Chakraborty	068167.0108
09/906,392 <sup>2</sup>	U.S.	July 16, 2001	System and Method for the Logical Substitution of Processor Control in an Emulated Computing Environment	Eric P. Traut	068167.0109
PCT/US01/22276 <sup>3</sup>	PCT	July 16, 2001	System and Method for Emulating the Operation of a Memory Management Unit and a Translation Look-Aside Buffer	Eric P. Traut	068167.0110
PCT/US01/22278 <sup>4</sup>	PCT	July 16, 2001	System and Method for Displaying Current Images of Virtual Machine Environments	Eric P. Traut Benjamin Martz	068167.0111
PCT/US01/22277 <sup>5</sup>	PCT	July 16, 2001	System and Method for Emulating the Operation of a Video Graphics Adapter	Tim Carroll Aaron S. Giles	068167.0112

<sup>1</sup> This U.S. application claims the benefit of a provisional application filed on April 7, 2001.

<sup>2</sup> This U.S. application is a continuation-in-part of and claims priority from the application having Baker Botts No. 068167.0105.

<sup>3</sup> This PCT application claims priority from the application having Baker Botts No. 068167.0102.

<sup>4</sup> This PCT application claims priority from the application having Baker Botts No. 068167.0103.



PCT/US01/49217 <sup>6</sup>	PCT	December 19, 2001	System and Method for the Logical Substitution of Processor Control in an Emulated Computing Environment	Eric P. Traut	068167.0113
PCT/US02/06815 <sup>7</sup>	PCT	March 7, 2002	Method for Hybrid Processing of Software Instructions of an Emulated Computer System	Aaron S. Giles Eric P. Traut	068167.0114
PCT/US02/10078 <sup>8</sup>	PCT	April 1, 2002	Method for Establishing a Drive Image in a Computing Environment	Eric P. Traut Aaron S. Giles Parag Chakraborty	068167.0115
10/193,531	U.S.	July 11, 2002	Method for Forking or Migrating a Virtual Machine	Eric P. Traut Rene A. Vega	068167.0116
10/211,148	U.S.	August 2, 2002	Method for Monitoring and Emulating Privileged Instructions of Programs in a Virtual Machine	Eric P. Traut	068167.0118
10/247,298	U.S.	October 18, 2002	Software License Enforcement Mechanism for an Emulated Computer System	Eric P. Traut	068167.0119
10/247,509	U.S.	October 18, 2002	Allocation of Processor Resources in an Emulated Computing Environment	Rene A. Vega	068167.0120
Not Yet Filed			Bimodal Device Emulation	Eric P. Traut	068167.0121

<sup>5</sup> This PCT application claims priority from the application having Baker Botts No. 068167.0104.

<sup>6</sup> This PCT application claims priority from the applications having Baker Botts No. 068167.0105 and Baker Botts No. 068167.0109.

<sup>7</sup> This PCT application claims priority from the applications having Baker Botts No. 068167.0107.

<sup>8</sup> This PCT application claims priority from the applications having Baker Botts No. 068167.0108.

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Commissioner of Patents and Trademarks  
Washington DC 20231

STATEMENT UNDER 37 CFR § 3.73(b)

Microsoft Corporation, a corporation of the State of Washington, states that it is:

☒ the assignee of the entire right, title, and interest; or

☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above.

☐ 1. The assignment was recorded in the Patent and Trademark Office at Reel, Frame(s)

☐ 2. The assignment has not yet been recorded. A copy of the assignment is attached.

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

i. From: Eric P. Traut and Benjamin Martz To: Connectix Corporation  
The document was recorded in the Patent and Trademark Office at Reel 011470, Frame(s) 0788.

ii. From: To: The document was recorded in the Patent and Trademark Office at Reel , Frame(s) , or for which a copy thereof is attached.

iii. From: **Connectix Corporation**. To: **Microsoft Corporation**, a copy of which is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: 4/3/03



Signature

Name: Daniel D. Crouse

Title: Assistant Secretary

Microsoft Corporation

Woodcock Washburn LLP  
One Liberty Place - 46th Floor  
Philadelphia, PA 19103  
Telephone: (215) 568-3100  
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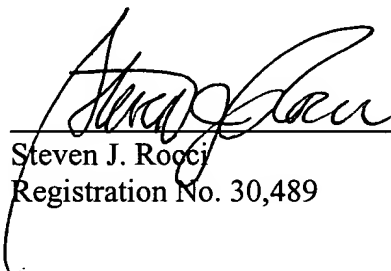
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Assistant Commissioner for Patents  
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**NOTIFICATION OF LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS  
(37 CFR 1.28(b))**

Applicant hereby notifies the Patent and Trademark Office that it is no longer entitled to status as a Small Entity, and that the claim for Small Entity status, as asserted on **January 23, 2001**, is hereby withdrawn.

Date: 4/7/03

  
\_\_\_\_\_  
Steven J. Roocy  
Registration No. 30,489

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Philadelphia PA 19103  
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